

ABSTRACT

An improved transparent armor structure for use in a vehicle includes a first sheet of transparent armor composite comprising at least one layer of polymeric material and at least one layer of tempered silica glass bonded to form a laminated bullet resisting structure and also having a bracket member adapted to hold a second transparent spall resisting layer parallel to and slightly spaced from the inner surface of the first transparent composite layer. A spacing means between the first and second layers forms a chamber between the first and second panels and a desiccant is located within the chamber to minimize the amount of condensation on the surface of the transparent armor surfaces.